

Annual Reports

OF THE

MEDICAL OFFICER OF HEALTH

AND THE

INSPECTOR OF NUISANCES

TO THE

Staf

Cannock Rural District Council

FOR THE YEAR 1907.



CANNOCK :

A. WITHINGTON, GENERAL PRINTER, MARKET PLACE.

Cannock Rural District Council.

—o—

*Cheslyn Hay,
Walsall,*

January 30th, 1908.

*To the Chairman and Members of the Cannock
Rural District Council.*

GENTLEMEN,

I beg to present before you my Report for the year 1907 on sanitation, health, sickness, and mortality.

Brewood Sub-Registration District :				Population.
Bushbury	3775	Stretton	250	
Brewood	2500	Teddesley	130	
Penkridge	2425	Coppenhall	85	
Lapley	745	Featherstone	50	
Acton and Bednall	570	Kinvaston	20	
Dunston	275	Total	10,825.	

An estimated increase of 55. Agricultural population, employees in electric works, and railway men in Bushbury.

Cannock (Rural) Sub-Registration District:			
Cheslyn Hay	2940	Hatherton	535
Essington	2000	Shareshill	370
Wyrley	1850	Saredon	375
Huntington	575	Hilton	80
Total	8,725.		

An estimated increase of 135. Mostly miners, tile workers, partially agricultural, and iron workers.

Entire District Population ... 19,550

Increase for Year 190

Births in the Year :				Births.
Males	262	Females	244	Total ... 506
General Birth Rate ... 25.88 per thousand.				
1906	26 per thousand	1901	30 per thousand	
1905	28	1900	31	"
1904	28	1899	30	"
1903	33	1898	31	"
1902	33	1897	33	"

This is a low Birth Rate, and shows a slight decline even on the low rates of 1906. Something like a Royal Commission of Experts will soon be required to throw light upon the causes for the general and extending low Birth Rates in the country. Such a state of things cannot be for the future well-being and stamina of an Imperial race.

Cannock (Rural) Birth Rate	30 per thousand.
Brewood Birth Rate	22 "
Cannock Birth Rate in 1906	29.5 "
Brewood Birth Rate in 1906	23.3 "

Deaths.	Deaths in the Year:								
	Males	...	110	Females	...	101	Total	...	211
	General Death Rate ... 10.79 per thousand.								

1906 ...	10.2 per thousand	1901 ...	13 per thousand
1905 ...	10	1900 ...	14 "
1904 ...	12	1899 ...	13 "
1903 ...	10	1898 ...	14 "
1902 ...	13	1897 ...	14 "

Rural Districts in Staffordshire—Death Rate in 1906 :
13 per thousand.

It is a matter of congratulation that we have been favoured with a succession of low Death Rates.

Cannock (Rural) Death Rate ...	10.4 per thousand
Brewood Death Rate	11.1 "
In 1906—Cannock, 10.9 ; Brewood, 9.7.	

Quarterly Mortality.	Mortality as to time of Year :				
		Cannock	Brewood	Totals	
	First Quarter ...	27	35	...	62
	Second Quarter ...	18	35	...	53
	Third Quarter ...	24	23	...	47
	Fourth Quarter ...	21	28	...	49
		90	121		211

Percentage of Total Deaths.	Cannock (Rural) Mortality under 1 year	23.3 per cent.
	Brewood Mortality under 1 year ...	16.5 per cent.

In 1906—Cannock, 28 per cent ; Brewood, 19 per cent.

Cannock (Rural) Mortality, all deaths to age of 5 years, 33.3 per cent. ; Brewood, 23 per cent. In 1906—Cannock, 41 per cent. ; Brewood, 24 per cent.

These figures bear out the general experience of the district. In the mining districts, infant mortality and child mortality are much higher than in the agricultural area.

Infant Death Rate.	Infant Death Rate ... 2.40 per thousand.				
	1906 ...	2.42 per thousand.	1901 ...	3.58 per thousand.	
	1905 ...	2.76	1900 ...	3.89	"
	1904 ...	3.37	1899 ...	3.90	"
	1903 ...	2.95	1898 ...	3.01	"
	1902 ...	3.80	1897 ...	3.91	"
					"

Practically the same rate as in 1906, which was the lowest on record. Infant Death Rate per 1000 births, 81.

Causes of Deaths in Infants :

	1907	1906	1905	1904	1903	1902
Zymotic causes ...	4	4	5	10	6	5
Chest causes ...	5	12	11	10	9	15
Nervous system ...	7	4	11	8	9	9
Debility causes ...	17	19	20	27	22	28
Other causes ...	8	8	6	9	9	12
	—	—	—	—	—	—
	41	47	53	64	55	69

Analysis of Causes of Deaths in Infants :

Causes.

			Cannock	Brewood	Tls.
Zymotic causes, 4	{ Measles ...	...	1	2	3
	{ Diarrhoea ...	...	0	1	1
Chest causes, 5	{ Bronchitis ...	...	2	2	4
	{ Pneumonia ...	...	1	0	1
Nervous System causes, 7	{ Brain Disease ...	...	2	0	2
	{ Dentition ...	...	0	1	1
	{ Convulsions ...	...	0	3	3
	{ Hydrocephalus ...	...	0	1	1
Debility causes, 17	{ Premature Birth ...	...	5	4	9
	{ Asthenia ...	...	3	0	3
	{ Atelectasis... ..	...	1	0	1
	{ Marasms ...	...	1	0	1
	{ Tabes Mesenterica ...	...	1	0	1
	{ Enteritis ...	...	1	0	1
	{ Inanition ...	...	0	1	1
	{ Tuberculosis ...	...	1	1	2
	{ Accident ...	...	1	0	1
All other causes, 8	{ Natural causes ...	...	1	0	1
	{ Pulmonary Apoplexy ...	...	0	1	1
	{ Gastric Catarrh ...	...	0	1	1
	{ Heart Disease ...	...	0	2	2
			—	—	—
			21	20	41

Analysis of Causes of Deaths in Children, 1 year to 5 : Causes, 1 to 5 years.

			Cannock	Brewood	Tls.
Zymotic causes, 6	{ Measles ...	...	2	2	4
	{ Diphtheria ...	...	2	0	2
Chest causes, 8	{ Bronchitis ...	...	1	1	2
	{ Pneumonia ...	...	3	1	4
	{ Pleurisy ...	...	0	1	1
	{ Laryngitis... ..	...	0	1	1
Nervous System, 2—Convulsions			1	1	2
			—	—	—
			9	7	16

Death Rate over 65 years, 3·5 per thousand. In 1906, 4. Over 65 years

Parish Death
Rates.

Parish Death Rate Table :

Great Wyrley	6·4 per thousand.
Shareshill	8 1 "
Acton and Bednall	8·7 "
Bushbury	8·8 "
Lapley	10·4 "
Hatherton	11 "
Essington	11 "
Huntington	11·2 "
Brewood	11·6 "
Cheslyn Hay	12·2 "
Penkridge	14 "

Infectious
Disease.

Mortality from Infectious Disease :

			Cannock		Brewood		Tls.
Whooping Cough...	...	0	...	1	...	1	
Diarrhœa ...	...	0	...	1	...	1
Scarlet Fever	...	2	...	0	...	2	
Measles ...	...	3	...	4	...	7
Diphtheria	...	2	...	0	...	2	
Influenza ...	...	1	...	0	...	1
		—		—		—	
		8		6		14	

Total Zymotic Deaths for 1907 ... 14

1906 ... 12	1904 ... 20	1902 ... 19
1905 ... 23	1903 ... 16	1901 ... 24

Zymotic Death Rate ... 71 per thousand.

1906 ... 61	1903 ... 86	1900 ... 1·4
1905 ... 1·20	1902 ... 1·04	1899 ... 1·4
1904 ... 1·1	1901 ... 1·3	1898 ... 1·3

Zymotic Death Rate in Staffordshire Rural Districts in
1906 ... 81 per thousand.

Distribution of Deaths :

Cheslyn Hay, which includes 4 deaths at the Hospital :—

Scarlet Fever 2, Diphtheria 2	...	4
Essington—Influenza 1, Measles 2	...	3
Bushbury—Measles 4, Whooping Cough 1	...	5
Brewood—Diarrhœa 1	...	1
Wyrley—Measles 1	...	1—14

General Causes of Death :

General
Causes of
Death.

	Cannock	Brewood	Totals
Zymotic Diseases ...	8	6	14
Infantile Diseases ...	14	8	22
Bronchitis ...	6	8	14
Pneumonia ...	8	5	13
Phthisis ...	2	10	12
Pleurisy ...	0	1	1
Other Lung Diseases	1	1	2
Liver Disease ...	0	1	1
Kidney Disease ...	0	5	5
Heart Disease ...	12	21	33
Brain Disease ...	8	12	20
Cancer ...	5	8	13
Convulsions ...	1	4	5
Accident ...	6	3	9
Old Age ...	12	10	22
Rheumatic Fever ...	1	1	2
Tuberculosis ...	1	2	3
All other causes ...	5	15	20
	91	121	211

Respiratory Death Rate ... 2·10 per thousand.

Respiratory
Death Rate.

1906 ... 1·80	1903 ... 2·52	1900 ... 3·13
1905 ... 2·38	1902 ... 2·31	1899 ... 3·03
1904 ... 2·69	1901 ... 1·84	1898 ... 4·17

Vaccination :

Vaccination.

I can report satisfactorily upon Vaccination in the District, as to general efficiency, and as to the number of children vaccinated. It remains to be proved what effect recent legislation may have. There is a tendency for considerations of sentiment to over-rule what is wise and prudent, and it may require some serious visitations of Small Pox to bring home to the public mind the value of Vaccination, and possibly in a greater degree of re-vaccination as a preventative of Small Pox.

Causes of Uncertified Deaths :

Uncertified
Deaths.

Heart Disease 2 (Teddesley 1, Brewood 1), Premature Birth 1 (Penkridge), Bronchitis 1 (Penkridge), total 4.

Percentage of total deaths ... 1·89.

1906 ... 2·5 per cent.	1902 ... 2·1 per cent.
1905 ... 2·7 per cent.	1901 ... 1·6 per cent.
1904 ... 2·4 per cent.	1900 ... 1·2 per cent.
1903 ... 5·4 per cent.	

Sickness.

Notified New Cases of Sickness :

	1907	1906	1905	1904	1903	1902
Scarlet Fever ...	54	70	42	37	137	164
Diphtheria ...	10	8	10	11	6	6
Enteric Fever ...	0	3	1	3	3	12
Erysipelas ...	18	19	26	17	24	14
Membranous Croup	0	2	0	2	0	0
Puerperal Fever ...	0	0	0	1	0	0
	<hr/> 82	<hr/> 102	<hr/> 79	<hr/> 71	<hr/> 170	<hr/> 196

School
Closure.

Closure of Schools advised :

Wheaton Aston ...	...	April 15 to May 6 ...	Mumps
Bushbury National	...	May 3 to July 8 ...	Measles
Bushbury Lane Schools	...	June 10 to July 8 ...	Measles
Huntington	...	May 20 to July 1 ...	Measles
Bednall ...	...	July 29 to Sept. 9 ...	Measles
Essington ...	...	July 23 to Aug. 31 ...	Measles
Stretton ...	...	June 23 to July 15 ...	Mumps
Wyrley ...	...	Nov. 11 to Dec. 9 ...	Measles

Typhoid
Fever.

Typhoid Fever :

It is with pleasure that I am able to report on the complete absence of Typhoid Fever in 1907. We possibly have to thank the wet summer for this. It is a certain fact that thousands of children's lives were saved in 1907 from the comparative immunity of Diarrhoea. Not only the question of a damp summer, but also the lower temperature prevalent had influence on the incidence of Diarrhoea, Dysentery, Enteric conditions, and the like.

Diphtheria.

Diphtheria :

Ten cases in the year, seven in the third quarter. A case from Essington contracted after emptying an ashpit. Suspicious and polluted water, with defective drainage, gave rise to other cases. In other cases, personal uncleanness and local insanitary conditions.

Scarlet Fever.

Scarlet Fever in the District—54 cases.

Bushbury ...	30	Hatherton ...	2
Brewood ...	9	Lapley ...	1
Cheslyn Hay ...	3	Teddesley ...	1
Wyrley ...	3	Stretton ...	1
Peckridge ...	3	Bednall ...	1
Total	54		

The number of cases in Bushbury Parish ran up in consequence of ignorance and deliberate exposure of infected children, so much so that the Council instituted legal proceedings and established a successful prosecution. The Isolation Hospital has proved a boon in reducing Scarlet Fever. I would express my thanks to my medical colleagues for their co-operation in the removal of cases.

The Inspector is likewise deserving of considerable praise in having unearthed cases in a peeling stage, where no doctor had been called in. In such cases he has either insisted on medical advice being obtained, or has asked me to investigate into the matter. By such action, epidemics have been prevented.

Cases Notified :

1892 to 1895 (4 years)	...	413
1896 to 1899 (4 years)	...	468
1900 to 1903 (4 years)	...	686
Average per year	...	130

From 1904 to 1907 (4 years from opening of Hospital), 203. Average per year, 50. Cases removed in 1907, 47 out of 54 cases. Houses infected, 37. Under 5 years, 8 ; over 5 years, 46 ; total, 54.

Measles :

Measles prevailed strongly in 1907 throughout the district, notably in Wyrley, Essington, Huntington, Bushbury, Bednall, and Cheslyn Hay.

Measles.

The subject of an efficient Sewerage Scheme for Cheslyn Hay has been constantly before the Council for the past year. The general plan prepared by the Engineer has been approved by the Council. The plans have also been submitted to the Cheslyn Hay Parish Council, who expressed their approval of the scheme. The Council, in order to facilitate, if possible, the passing of the plans by the Local Government, sent a deputation to interview the Board on the scheme. The main point of the deputation was to obtain the consent of the Board to a scheme based on a basis of ten gallons per head dry weather flow. The Local Government Board declined to accept this basis until a further Local Enquiry has been held, but state that it is probable that they will accept it as an instalment of what will ultimately be required. The plans have been forwarded to the Local Government Board, and an application has been made for sanction to borrow £6,000 for purposes of the scheme. This sum included £400 for connections. The term for completion of contract for purchase of the land for the Littlewood Sewerage Works has been extended to 26th December, 1908.

Cheslyn Hay
Sewerage.

The Local Government Board declined to issue an order declaring the cost of maintenance and construction of Brewood Sewerage Works to be Special Expenses chargeable upon the whole parish of Brewood whilst the Brewood Special Drainage District existed. The Council sent a deputation to interview the Local Government Board on the matter. After hearing the report of the deputation, the Council decided to apply for the cancella-

Brewood
Sewerage.

tion of the Order issued in 1875 constituting the Brewood Special Drainage District, and to again make application for the issue of a new Order declaring the present expenses to be a special charge. The Local Government Board held a Local Enquiry as to the Council's application, and subsequently issued an Order dissolving the Brewood Special Drainage District and merging it in the Parish of Brewood. The Board also issued an Order declaring the cost of construction of the new works, and the annual charges for maintenance, as a special charge upon the whole parish. With a very slight alteration the works have been satisfactory throughout the year.

Bushbury
(Oxley)
Sewerage.

After many years' consideration, and after many difficulties as to site and other causes, the Council have at length been able to carry out the Bushbury (Oxley) Sewerage Scheme. The Contractors commenced operations on the 18th of February, and the Works were opened by H. S. Staveley-Hill, Esq., M.P., on October 11th. The Contractors carried out their work to the entire satisfaction of Council and the Council's Engineer, notwithstanding the fact that many difficulties had to be overcome. It was found that the main sewer would have to cross the Wolverhampton Sewer, and arrangements would have to be made for this. At a great depth the Contractors encountered hard rock; running sand was also met with, and when the Works were nearing completion the excavations for Filter Beds were completely flooded by a heavy storm. The Council found it necessary to raise an additional loan of £500 for expenses connected and incurred to complete the scheme. Connections between the sewers and the boundaries of properties have been made by the Council.

Since completion, the Works have been satisfactory. Several matters have yet, however, to be attended to. The volume of storm water coming off the County and District roads is too large for efficient treatment, and this matter has been referred to a committee for consideration.

The County Education Committee have decided to convert the parlour closets at the Council School, Bushbury, into water closets, and this will necessitate connection to an outfall. The Council have instructed their Engineer to prepare a scheme for the drainage from the Schools, Schoolmaster's house, Churchyard, and adjoining cottages.

Essington
Sewerage.

The Engineer has completed his plans for the Sewerage and Sewage Disposal for the Township of Essington. The scheme has been approved by the Council, and submitted to the Essington Parish Council, who also approved it. The Local Government Board have held their Local

Enquiry at Essington as to the application of the Council to borrow £2,290 for the purposes of the Works. On the plans being submitted to the Local Government Board, the Board approved them subject to certain alterations. The Council opposed any alteration to the scheme, the plans being drawn on the same scale and basis as the plans for Bushbury, to which the Board offered no objection. Accordingly, the Council deputed Mr. Parry, one of the members for Essington, and the Engineer to interview the Local Government Board on the matter. As a result of this interview the Board considerably modified their requirements, and the Council instructed their Engineer to make the small amendments asked for by the Board in this scheme. This the Engineer has done, and the altered plans have been transmitted to the Board. Advertisements have been issued for tenders for the Works, which will be carried out during the coming year. The purchase of the site from Lord Barnard has been completed, and the ground fenced off.

The Engineer reported to the Council during the year on the examination of the Essington (Church Road) Sewage Works, which had then been working for $3\frac{1}{2}$ years. He found a quantity of sludge in the bottom of the tank, the inlet side of which had dropped, owing to colliery works. This, in the opinion of the Engineer, was no detriment to the efficiency of the Works, providing no further subsidence took place.

Although no action has been taken in regard to Wyrley Sewerage proper, a small scheme has been prepared for the main drainage of Walsall Road, Wyrley. This is merely a temporary sewer, and cost about £37.

Wyrley
Sewerage.

The Council are of opinion that owing to the liability of colliery subsidences in the Landywood District of Wyrley, and such subsidences are much in evidence in some of the dwellings in this locality, it would be unwise to at present carry out any scheme for this district, and no definite action has therefore been taken on the scheme prepared by their Engineer.

Wyrley
(Landywood)
Sewerage.

The Cheslyn Hay Water Works have been satisfactory throughout the year, although there has at times been shortage of water.

Cheslyn Hay
Water.

The Wyrley Water Scheme has been entirely satisfactory throughout the year.

Wyrley
Water.

The Joint Urban and Rural Smallpox Hospital Committee have appointed Mr. Whitehead to act as architect for preparation of plans and estimate of cost for erection of a Smallpox Hospital, for submission to the Local

Smallpox
Hospital.

Government Board. Mr. Whitehead has been instructed to seek an interview with the Medical Officer of the Local Government Board in order to obtain, if possible, the sanction of the Board to a building with 12in. hollow walls. This, in the opinion of the local Councils, is all that is necessary, but the Local Government Board require 14in. walls.

Bushbury Scavenging. The Council have renewed for a period of one year the contract for Public Scavenging in Bushbury.

Bushbury Mortuary. The Council have accepted a tender for the erection of the Bushbury Mortuary, and the building has been completed and fenced round. A key of the building has been handed to the police, and another is in possession of Mr. Whitehead.

Cerebro Spinal Fever. Circulars received from the Staffordshire County Council upon Cerebro-Spinal Fever have been forwarded to each Medical Practitioner in the Council's district.

Notification of Births Act, 1907. The Council, having received a printed enquiry from the Staffordshire County Council as to the intention or otherwise of this Council to adopt the Notification of Births Act, 1907, decided to convene a Conference of Staffordshire Rural District Councils to discuss the matter. At this Conference it was decided that it is not advisable for the Rural Districts in the County to adopt the Act. It was also decided that each District Council should be urged to instruct their Medical Officer of Health to prepare a leaflet upon the Feeding and Rearing of Infants, the same to be printed on strong paper and supplied to Medical Practitioners and Midwives for distribution amongst the mothers of newly-born children.

Special Orders. The Local Government Board have conferred upon the Council in so far as concerns Jones Road, Bushbury, the provisions of the Private Street Works Act, 1892, except so far as they relate to the sewerage of streets.

Wolverhampton Borough Boundaries Extension. The Wolverhampton Corporation are again seeking to enlarge their Borough boundaries by the inclusion of outside districts. The Council have appointed a powerful committee to oppose the inclusion of Bushbury within the Borough. A meeting of representatives of Local Authorities has been held, at which the Council was represented, when the invitation of the Corporation for Local Authorities to meet them to discuss the question was declined, the meeting being of opinion that it was impossible for Wolverhampton to offer the inhabitants of the outside areas any benefits or advantages which would adequately compensate them for their loss of local authority. The meeting further decided to emphatically oppose any such

scheme by all legal means. The contention of the Cannock Rural District Council, and also of the Bushbury rate-payers, is a reasonable one in opposing incorporation, inasmuch as it can by no means be established that the welfare of the Bushbury population has been neglected or their interests overlooked. The District Council in Bushbury affairs has been progressive, and much labour and time devoted to the welfare of this community. The roads under Mr. Whitehead's skilful supervision have been put in excellent order; the drainage and sewerage disposal has been dealt with under a satisfactory scheme; the water supply has been regulated; the arrangements for scavenging duly carried out; every provision made for control and isolation of infectious cases of disease; a mortuary established; and, in my opinion, there is no department of local government in Bushbury which cannot be duly regulated and controlled by the District Council, with due regard to the financial interests of the parish and compatible with progress and efficiency.

I beg to add the Statistical Tables on Sickness, Mortality, Infectious Diseases, and Infant Mortality; and to express my thanks to the Members and Officials of the Council who have rendered me courteous assistance throughout the year.

I remain, Mr. Chairman and Gentleman,

Yours respectfully,

W. HOSEGOOD, M.B.,

Medical Officer of Health.

I am indebted to the Council's Engineer, Mr. H. M. Whitehead, for the following reports:—

CHESLYN HAY SEWERAGE.

In accordance with your Council's instructions I have formulated a scheme of Sewerage and Sewage Disposal for the Township of Cheslyn Hay. I have taken all necessary levels, obtained the necessary details and estimates, and have prepared all necessary plans and sections. Owing to the natural levels of the ground and the subsidences due to mining operations, it is practically impossible to drain the whole of the parish to one outfall, and I have therefore considered the area to be drained as divided into two districts by the ridge of land running North and South across the top of High Street. These two separate districts I have called respectively the "Littlewood Outfall" and the "Saredon Road Outfall" areas.

"LITTLEWOOD OUTFALL."

Taking the first, the Littlewood portion of the scheme, the number of existing houses is 493, but providing for future extensions I

have thought it advisable to allow for 550 houses and an estimated population (at five persons per house) of 2,750. I have designed the Works to deal with a dry weather flow of 10 gallons per head per day for this population. In accordance with the Local Government Board's requirements, three times the daily dry weather flow of 82,500 gallons will be dealt with by the tanks and filters, the excess up to six times the dry weather flow, or another 82,500 gallons being dealt with in a rough storm water filter. All the sewage above six times the dry weather flow will be sufficiently diluted to allow of it being discharged direct into the Wyrley Brook.

Your Council have arranged for the purchase of about $5\frac{1}{2}$ acres of land, being fields Nos. 169 and 172 on Ordnance Map, and all sewage from the Littlewood outfall portion of the scheme will gravitate to these fields and be dealt with on the bacteriological system. In this portion of the scheme the sewers in streets will consist chiefly of 6in. and 9in. stoneware pipes with a 12in. outfall sewer from Old Tramway, across fields and down Littlewood Road to site of Works. Another 9in. outfall sewer will be taken from the lower end of Station Street near Wyrley Station across fields and on to site of Works. The Outfall Works will consist of Storm Overflow Chambers, Detritus Tank, 2 Septic Tanks 27ft. 0in. x 11ft. 6in. x 6ft. 6in. deep, 2 Circular Percolating Filter Beds each 42ft. 0in. diam. fitted with Patent Revolving Sprinklers, Storm Water Filter Beds, and Sludge Bed. Also about $2\frac{3}{4}$ acres of land will be levelled and underdrained for the final treatment of the filtered effluent before discharging into the brook.

The roads sewered in this portion of the district include Station Street, Littlewood Road, Littlewood Lane, Coppice Lane, The Lot, Old Tramway, Low Street, Red Lane, Cross Street, Queen Street, Hull's Fold Road, and High Street.

"SAREDON ROAD OUTFALL."

Next, considering the Saredon portion of the scheme, the number of existing houses is 173—allowing for future extensions say 220, which gives a population of 1,100. Again taking a flow of 10 gallons per head per day, there will be an estimated daily dry weather flow of 11,000 gallons; 33,000 gallons (i.e., 3 times daily dry weather flow) will be dealt with in the Tanks and Filters. From 3 to 6 times daily dry weather flow will be dealt with, on the Storm Water Filter, and all sewage above 6 times daily dry weather flow will be discharged directly into a water course at the bottom end of the outfall field, this water course eventually discharging into Wyrley Brook.

Your Council have arranged to purchase the field numbered 116 on Ordnance Map, and having an area of a little over of 2 acres. All the sewage from the Saredon Road portion of the scheme will gravitate to this field and be dealt with on the same lines as at Littlewood. The Works consist of Storm Overflow Chambers, Detritus Tank, 2 Septic Tanks each 16ft. 0in. x 7ft. 9in. x 6ft. 6in. deep, 2 Circular Percolating Filters each 27ft. diam., Storm Water

Bed, Sludge Bed, and about $1\frac{1}{2}$ acres of land levelled and underdrained for final treatment of the filtered effluent before discharging into water course. The sewers in the roads in this portion of the scheme consist of 6in. and 9in. stoneware pipes, with a 9in. outfall sewer down Saredon Road and across fields to site of works. The roads sewered in this portion of the scheme include Saredon Road, Brick-kiln Lane, Hill Street, Hatherton Street, and Pinfold Lane.

GENERALLY.

All sewers will be constructed with Manholes or Lampholes at every change of direction or gradient, and at not greater intervals than about 100 yards, and the sewers laid in perfectly straight lines between these points. At the dead end of all sewers either Flushing Shafts or Automatic Flushing Chambers are provided, according to the importance and gradient of the respective sewers. Ventilating Columns will also be erected at all top ends of main sewers. The Flushing Chambers and Shafts will be supplied with water from the public water supply.

BUSHBURY SEWERAGE AND SEWAGE DISPOSAL WORKS.

Sewerage and Sewage Disposal Works to deal with the sewage from the Oxley District of Bushbury were formally opened by Mr. H. Staveley-Hill, Member of Parliament for the Kingswinford Division of Staffordshire, on October 11th last. The population is about 3,000, and the estimated daily dry weather flow is 42,000 gallons. An amount of sewage equal to six times the daily dry weather flow is dealt with at the Works, all storm water above this amount being discharged over a storm overflow on the main outfall sewer. At the Works the sewage is again divided, an amount up to three times the daily dry weather flow being dealt with by the tanks and filter beds, the excess up to three times being dealt with on a special storm water filter. The Works consist of a Weir Chamber, Detritus Tank, 2 Septic Tanks, 3 Circular Percolating Filter Beds, Sludge Bed, and Storm Water Filter.

The combined capacity of the Detritus and Septic Tanks is equal to 24 hours' flow. The sludge will be collected in sumps formed in the floors of the tanks, and will gravitate from thence on to the adjoining sludge bed, which is at such a level that the tanks may be completely emptied on to it through the sludge pipes. The sludge pipe valves are all operated from one valve chamber.

The levels are such that land filtration could not be obtained, and in consequence the area of the filters had, to comply with the regulations of the Local Government Board, to be calculated on the basis of 28 gallons per foot yard of filtering medium instead of the usual 56 gallons. The three filters are each 63ft. 6in. in diameter, and have an average depth of 4ft. 6in. The nett area of each filter is 341 square yards. The filtering medium used is broken furnace slag and Rowley Regis granite, broken $\frac{1}{2}$ in. to $\frac{1}{4}$ in. gange, two beds being filled with slag and one with granite. In each bed a 6in. layer of $1\frac{1}{2}$ in. to 2in.

material is placed on the floor, which is formed of concrete faced smooth with cement, and drained by means of 6in. half-pipe channel underdrains built into the floor and covered with slotted tiles. The three filters may all be used as primary beds if desired, but are so arranged that one bed may be used for secondary filtration of the effluent from either of the other two beds. The sewage is distributed on each of the filters by means of "Fiddian" Patent Revolving Distributors, supplied by Messrs. Birch, Killon and Co., of Manchester. The Storm Water Filter has an average depth of 4ft. 6in., and is filled with hard clinker with a 9in. layer of soil on the surface. The final effluent from the filters and storm water bed is discharged into the Staffordshire and Worcestershire Canal by agreement with the Canal Company, who have a guarantee as to the purity of the effluent, and may at any time require the Council to make other arrangements for the disposal of the effluent if any pollution of the Canal should occur.

The Works have been designed and carried out by Mr. Herbert M. Whitehead, Engineer and Surveyor to the Cannock Rural District Council, whose estimate for the scheme, which included the construction of over two miles of 12in., 9in., and 6in. pipe sewers, as well as the Outfall Works, was £4,007, whilst the actual cost has been £4,017. The work has been carried out in a satisfactory manner by the contractors, Messrs. Ward and Tetley, of Bradford.

ESSINGTON SEWERAGE.

In accordance with your Council's instructions I have now formulated a scheme of Sewerage and Sewage Disposal for that part of the Parish of Essington for which purpose I have called the Minerva and Sneyd Lane Districts. I have taken all necessary levels and obtained the necessary details and estimates.

I find that the number of existing houses in this district is 185, and allowing 5 persons per house the present population is estimated at 925; but in order to allow for future extensions I have based my calculations on 250 houses, or a population of 1,250, and I have designed the Works to deal with a dry weather flow of sewage of 15 gallons per head per day for this population. The Local Government Board, however, require that I should deal with five times the dry weather flow, but with only three times the dry weather flow or 56,260 gallons per day through the tanks and filters, the remainder over three times up to six times the dry weather flow to be dealt with on rough Storm Water Filters.

Your Council have arranged to purchase about eight acres of land situated near the Ashmore Park Colliery, No. 124 on Ordnance Map, from Lord Barnard, which is practically the only site within reasonable distance where the levels will permit the sewage to flow by gravitation to be dealt with on the bacteriological system. I have provided for collecting the sewage into the outfall sewer by means of 9in. pipes laid along the Blackhalve Lane, Burnsips Lane, and Sneyd Lane, the outfall being taken from a point at the "Swags," across

field No. 126, under the Colliery Tramway, to the Works in field No. 124. The tanks will consist of Detritus and Storm Water Chambers, 2 Septic Tanks, and 2 Filters. Storm Water Filter and Sludge Bed occupying about 1 acre and a half of the total area of land, a further 2 acres will be laid out for the secondary treatment of the filtered effluent from the bacteria beds. The Filters will be circular, and the sewage will be distributed automatically over the surface by means of Patent Sprinklers and so become purified during its passage through the filters by means of the bacteria which flourishes under these conditions. The final effluent will be discharged into the brook adjoining the site of the works. I have carefully considered the expenditure likely to be incurred in the construction of the sewers and works, and my estimate is as follows:—

	£	s.	d.
Flushing Shafts, Ventilating Columns, etc....	...	758	16 9
Outfall Works ... ..	...	717	9 2
Laying out of Land under Drains, etc. ...	...	175	14 1
		<hr/>	
		1652	0 0
Add 10 per cent. ...	...	165	4 0
		<hr/>	
		1817	4 0
Land ... ..	...	352	0 0
Easements ... ..	...	15	0 0
Legal Expenses ... ..	...	50	0 0
Printing and Advertising ... ..	...	15	0 0
Clerk of Works ... ..	...	40	0 0
		<hr/>	
		£2389	4 0

BUSHBURY MORTUARY.

In consequence of the frequent complaints from the District Coroner, the Bushbury Parish Council decided to ask the Rural District Council to erect a Public Mortuary in January last. Mr. H. Staveley-Hill, M.P., very generously leased a site at a nominal rent near the "Oxley Arms" at the top of Bushbury Lane.

The building, which was completed in October, is of red brick and tiles with stone dressings, well ventilated and lighted by a lantern roof with glass louvres. The inside walls are built in white glazed bricks to a height of five feet, it is fitted with four slate slabs built on white glazed brick supports, sink, water supply, etc., and a moveable white enamelled fire-clay post-mortem table is on order.

The building was designed by the Engineer, Mr. H. M. Whitehead, and the work was satisfactorily executed by Mr. F. Sprenger, of Penkridge, the cost including post-mortem table and fencing being under £100.

ISOLATION HOSPITAL REPORT FOR 1907.

CHESLYN HAY, WALSALL,

JANUARY 31st, 1908.

MR. CHAIRMAN AND GENTLEMEN,

I beg to submit my Report for the year 1907 on the work done at the Isolation Hospital. I have admitted in the year 56 cases :

47 CASES OF SCARLET FEVER from—

Bushbury	...	...	...	...	28
Brewood	...	...	...	...	7
Hatherton	...	...	...	...	2
Stretton	...	...	...	...	1
Lapley ...	...	...	...	...	1
Penkridge	...	...	...	...	3
Cheslyn Hay	...	...	...	...	2
Wyrley	...	...	...	...	2
Teddesley	...	...	...	...	1—47

9 CASES OF DIPHTHERIA from—

Hatherton	...	...	...	...	2
Stretton	...	...	...	...	1
Cheslyn Hay	...	...	...	...	3
Essington	...	...	...	...	1
Bushbury	...	...	...	...	2—9

I regret to have to report 4 fatal cases :—

- (1)—AGNESS PRUCE, 18 years, Gailey—scarlet fever; who came in with a severe malignant throat, dying on the ninth day from syncope.
- (2)—ALICE TURNER, 3½ years, Scotlands—diphtheria; coming from a wretched home in a condition of Marasmus, and succumbing in four days.
- (3)—CLIFFORD POWELL, 4 years, Calf Heath—diphtheria; a severe type of the disease from the start, lingering for thirteen days.
- (4)—FRANCIS INGRAM, 9 years, Quarry Bank—a complicated case, practically in *extremis* when admitted, and dying in twenty-four hours. There were scarlatinal symptoms, with a specific diphtheritic throat, and a condition of septicæmia or blood poisoning.

The utility of the Isolation Hospital can be expressed in figures which I think will convince the Council that they have done justice to the requirements of the community.

CASES OF SCARLET FEVER IN THE DISTRICT.

4 years	...	1892 to 1895	...	413
"	...	1896 to 1899	...	468
"	...	1900 to 1903	...	656
"	...	1904 to 1907	...	203

The Hospital was opened in 1904.

I must express my thanks to the Council for their keen interest in all that concerns the welfare of the Hospital. To the officials resident in the Hospital, to whose useful work I render every praise, also to the Clerk, the Surveyor, and the Sanitary Inspector for their efficient and kind co-operation in the many details in connection with the Hospital administration.

Patients admitted in 1906 and discharged in 1907 :

Name	Address	Age	Disease	Admitted	Discharged	Days
John Gough	Hatherton.....	3 ...	Scarlet Fever	Dec. 13	Jan. 28	47
Mabel Cope.....	Hatherton	8 ...	Scarlet Fever	Dec. 13	Jan. 28	40
James Cope	Hatherton.....	4 ...	Scarlet Fever	Dec. 13	Jan. 28	47
Albert Cope	Hatherton.....	6 ...	Scarlet Fever	Dec. 13	Jan. 21	40
Grace Cope.....	Hatherton.....	13 ...	Scarlet Fever	Dec. 13	Jan. 21	40
Margaret Bradford.....	Bushbury	26 ...	Scarlet Fever	Dec. 17	Jan. 21	36

Patients admitted and discharged in 1907 :

Mildred Lathe	Bushbury	3 ...	Scarlet Fever	Jan. 12	Feb. 24	42
Fred Smith.....	Bushbury	4 ...	Scarlet Fever	Feb. 5	Mar. 18	42
May Smith.....	Bushbury	8 ...	Scarlet Fever	Feb. 5	Mar. 18	42
Daniel Light	Gailey	30 ...	Scarlet Fever	Feb. 26	Mar. 30	33
Tom Bunce	Stretton	5 ...	Scarlet Fever	Mar. 1	Apr. 12	43
George Hand	Bushbury	34 ..	Scarlet Fever	Mar. 4	Apr. 13	41
James Whitehouse.....	Wyrley	5 ...	Scarlet Fever	Mar. 19	May 2	45
Emma Whitehouse.....	Wyrley	3½ ...	Scarlet Fever	Mar. 20	May 2	44
William Nicholls	Gunstone	10 ...	Scarlet Fever	Apr. 3	May 22	51
Fred Hudson	Bushbury	8 ...	Scarlet Fever	May 1	June 13	44
Thomas Bull	Bushbury	9 ...	Scarlet Fever	May 6	June 18	44
Alan Bull	Bushbury	4 ...	Scarlet Fever	May 8	June 18	42
Emily Upton	Coven	10 ...	Scarlet Fever	June 3	July 1	32
Elsie Upton.....	Coven	5 ...	Scarlet Fever	June 3	July 4	32
Edith Upton	Coven	9 ...	Scarlet Fever	June 3	July 1	32
Tom Upton.....	Coven	7 ...	Scarlet Fever	June 3	July 4	31
Gladys Bull.....	Bushbury	7 ...	Scarlet Fever	July 9	Aug. 29	52
Charles Marshall	Bednall.....	18 ...	Scarlet Fever	June 22	July 24	33
Agnes Spruce	Gailey	18 ...	Scarlet Fever	July 11	July 19	†9
May Partridge.....	Bushbury.....	7 ...	Scarlet Fever	July 16	Aug. 29	42
Frank Hodson.....	Bushbury.....	8 ...	Scarlet Fever	July 24	Sep. 10	49
Florence Hodson.....	Bushbury.....	13 ...	Scarlet Fever	July 24	Sep. 10	49
Minnie Skidmore	Bushbury.....	11 ...	Scarlet Fever	July 25	Aug. 20	27
Alice Turner	Bushbury.....	3½ ...	Diphtheria...	July 26	July 29	†4
Harold Radford	Bushbury.....	9 ...	Scarlet Fever	July 26	Aug. 29	35
Thomas Turner	Bushbury.....	6 ...	Scarlet Fever	July 29	Sep. 14	48
Alice Baugh.....	Bushbury.....	6 ...	Scarlet Fever	July 29	Aug. 20	23
Harold Broomhall	Bushbury.....	8 ...	Scarlet Fever	July 31	Sep. 10	42
Arthur Baugh	Bushbury.....	15 ...	Scarlet Fever	Aug. 2	Sep. 16	46
Harold Baugh.....	Bushbury.....	13 ...	Scarlet Fever	Aug. 2	Sep. 5	35
Edith Simmons	Bushbury.....	8 ...	Scarlet Fever	Aug. 6	Sep. 10	36
Louie Winter	Bushbury.....	12 ...	Scarlet Fever	Aug. 8	Sep. 19	43
Gertrude Allen.....	Penkridge ..	12 ...	Scarlet Fever	Aug. 10	Sep. 24	46
Nellie Westwood.....	Penkridge ..	12 ...	Scarlet Fever	Aug. 12	Sep. 24	44
Sarah Bond	Bushbury	6 ...	Scarlet Fever	Aug. 14	Sep. 24	42
Lewis Nunn.....	Essington.....	24 ...	Diphtheria...	Aug. 19	Sep. 11	24
Sarah Powell	Calf Heath ..	7 ...	Diphtheria...	Aug. 22	Sep. 11	21
Clifford Powell.....	Calf Heath ..	4 ...	Diphtheria...	Aug. 22	Sep. 3	†13
John Martin	Bushbury.....	26 ...	Scarlet Fever	Aug. 26	Oct. 7	43
Edward Shepherd	Bushbury.....	5 ...	Scarlet Fever	Sep. 2	Oct. 14	43
Arthur Norton.....	Bushbury.....	10 ...	Diphtheria...	Sep. 14	Oct. 7	23
Francis Ingram	Penkridge ..	9 ...	Scarlet Fever	Sep. 18	Sep. 19	†1
Thomas Bellingham ...	Cheslyn Hay	22 ...	Diphtheria...	Sep. 23	Oct. 12	20

Eva Simmons	Bushbury.....	10 ...	Scarlet Fever	Sep. 25	Nov. 6	43
Louisa Upperdine	Cheslyn Hay	22 ...	Diphtheria...	Sep. 28	Oct. 19	22
Sam Allen	Cheslyn Hay	17 ...	Diphtheria...	Oct. 2	Oct. 23	22
Edward Hucker	Teddesley ...	27 ...	Scarlet Fever	Oct. 12	Nov. 28	48
Sarah Fletcher.....	Lapley	35 ...	Scarlet Fever	Oct. 22	Dec. 3	43
Alice Plant	Bushbury.....	10 ...	Scarlet Fever	Nov. 9	Dec. 21	43
William Wright	Bushbury.....	14 ...	Scarlet Fever	Nov. 11	Dec. 23	43
William Elton.....	Bushbury.....	10 ...	Scarlet Fever	Nov. 19	Dec. 31	43
Nancy Rogers	Stretton	12 ...	Diphtheria...	Dec. 7	Dec. 28	22

Patients in Hospital at end of Year :

Name	Address	Age	Disease	Admitted
Fred Rogers.....	Brewood.....	29 ...	Scarlet Fever ...	Nov. 28
Kate Symonds.....	Brewood.....	27 ...	Scarlet Fever ...	Nov. 28
Kathleen Cox	Cheslyn Hay	28 ...	Scarlet Fever ...	Dec. 19
William Simms ...	Cheslyn Hay	20 ...	Scarlet Fever ..	Dec. 28

† Denotes fatal cases in Hospital.

Patients admitted in 1904, 28 ; 1905, 37 ; 1906, 63 ; 1907, 56 ; total, 184. Scarlet Fever, 165 ; Diphtheria, 16 ; Scarlet Fever and Diphtheria, 3 ; total, 184. Deaths, 5—Scarlet Fever, 2 ; Diphtheria, 2 ; Scarlet Fever and Diphtheria, 1.

Yours respectfully,

W. HOSEGOOD, M.B., Medical Superintendent.

Annual Report of Medical Officer of Health for 1907

ON THE

Administration of the Factory and Workshops Act, 1901,

For the RURAL DISTRICT OF CANNOCK.

INSPECTIONS :

Factories (including Factory Laundries) ...	1	Written Notices, 1
Workshops (including Workshop Laundries) 79	Written Notices, 3	
Workplaces	15	Written Notices, 0

DEFECTS FOUND :

	FOUND	REMEDIED.
Want of Cleanliness	1	1
*Sanitary Accommodation inefficient ...	1	1
Unsuitable and Defective Pan Closets ...	40	40

*Sec. 22 P.H. Amendment Act not adopted.

HOME WORK :

Locks, Latches, and Keys—Number of Addresses of Outworkers received from other Councils, 1. Number of Inspections of Outworkers Premises, 3.

REGISTERED WORKSHOPS :

Bakehouses	20
Workshops	29
Workplaces	8—57

OTHER MATTERS :

Failure to affix Abstract of the Factory and Workshop Act ...	2
Failing to notify H.M. Inspector of Commencing Workshop ...	2

W. HOSEGOOD, M.B., Medical Officer of Health.

TABLE 1—Vital Statistics of Whole District during 1907 and Previous Years. RURAL DISTRICT OF CANNOCK.

Year.	Population estimated to Middle of each Year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Institu- tions in the District.	Deaths of Non- Residents in Public Institu- tions in the District.	Deaths of Residents registered in Public Institu- tions beyond the District.	Nett Deaths at all Ages belonging to the District.	
		No.	Rate.*	Under 1 Year of Age.		At all Ages.					Number.	Rate.*
				Number.	Rate per 1000 Births registered.	Number.	Rate.*					
1	2	3	4	5	6	7	8	9	10	11	12	13
1897†	15821	555	35	62	111	253	15·99	...	Nil.	...	...	...
1898	15965	525	32	48	91	243	15·21	...	...	...	...	...
1899	16138	529	32	63	119	238	14·74	...	...	...	...	...
1900	16415	543	33	65	119	249	15·16	...	...	...	...	...
1901	17857	548	30	64	116	244	15·5	...	...	2	246	15·7
1902	18125	599	33	69	115	237	13·07	...	...	5	242	13·2
1903	18615	616	33	55	89	202	10·85	...	...	7	209	11·2
1904	18950	531	28	64	120	244	12·87	...	...	5	249	13·1
1905	19140	538	28	53	98	221	11·50	...	...	5	226	11·80
1906	19360	505	26	47	93	198	10·2	1	...	7	205	10·58
Averages for years 1897-1906	17638	549	31	59	107	232	13·4	...	Nil.	...	...	...
1907	19550	506	25	41	81	211	10·79	4	...	11	222	11·25

† Gnosall takes over Church Eaton

Note—Institutions outside the District receiving Sick and Infirm Persons from the District: Wolverhampton Hospital, Walsall Cottage Hospital. Other Institutions, the deaths in which have been distributed among the several localities in the District—Isolation Hospital, Cheslyn Hay. The Workhouse is NOT situate within the District.

Area of District in acres }
(exclusive of area } 51,418.
covered by water) }

Total Population at all Ages..... 17,857 }
Number of Inhabited Houses 3,570 } At Census of 1901.
Average Number of Persons per House ... 5 }

Vital Statistics of Separate Localities in 1907 and previous years.

Names of Localities.	1—CANNOCK (Sub-Registration District).				2—BREWOOD (Sub-Registration District).			
	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.
	A	B	C	D	A	B	C	D
*1897 ...	6415	259	98	31	9406	296	155	31
1898 ...	6525	241	91	31	9440	284	152	27
1899 ...	6660	252	94	31	9478	277	144	32
1900 ...	6900	268	110	36	9515	275	139	29
1901 ...	7519	263	115	35	10338	285	129	29
1902 ...	7695	293	111	39	10430	306	131	30
1903 ...	8080	322	98	30	10535	294	107	25
1904 ...	8330	282	103	28	10620	249	146	36
1905 ...	8450	275	104	27	10690	263	122	26
1906 ...	8590	254	97	27	10770	251	108	20
Averages of Years 1897 1906	7516	270	102	31	10122	278	133	28
1907 ...	8725	264	†96	21	10825	242	†126	20

* Gnosall takes over Church Eaton.

† Including Deaths in Hospital.

TABLE III.—Cases of Infectious Disease Notified during the Year 1907. CANNOCK RURAL DISTRICT.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.					TOTAL CASES NOTIFIED IN EACH LOCALITY.		NUMBER OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.			
	At all Ages.	AT AGES—YEARS.					CANNOCK (s.r.d.)	BREWOOD (s.r.d.)	CANNOCK (s.r.d.)	BREWOOD (s.r.d.)	Total Cases removed to Hospital.
		1 to	5 to 15	15 to 25	25 to 65	65 and upwards					
Diphtheria (including Membranous Group)	10	2	4	3	1	...	6	4	6	3	9
Erysipelas.....	18	...	2	1	7	8	15	3	...	...	...
Scarlet Fever	54	8	35	4	7	...	8	46	6	41	47
TOTALS.....	82	10	41	8	15	8	29	53	12	44	56

Isolation Hospital in Parish of Cheslyn Hay.

TABLE IV.—Causes of and Ages at Death during the Year 1907.

CANNOCK RURAL DISTRICT.

CAUSES OF DEATH.	Deaths at the Subjoined Ages of "Residents," whether occurring in or beyond the District.							Deaths at all Ages of Residents belonging to Localities, whether occurring in or beyond district.		Total Deaths whether of "Residents" or Non-Residents in Public Institutions in the District.
	All Ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	CANNOCK (S.R.D.)	BREWOOD (S.R.D.)	
	2	3	4	5	6	7	8	9	10	11
Measles.....	7	3	4	...	...	...	...	3	4	...
Scarlet Fever	2	...	...	1	1	...	...	2	...	2
Whooping Cough	1	...	2	1	...	...	...	...	1	2
Diphtheria, including Membranous Croup	2	...	...	...	...	...	...	2	...	...
Epidemic Influenza.....	1	...	...	...	...	1	...	1	...	...
Diarrhoea.....	1	1	...	...	...	...	...	...	1	...
Enteritis	1	1	...	...	...	...	...	1	...	...
Other Septic Diseases.....	2	1	...	...	...	...	1	2	...	...
Phthisis (Pulmonary Tuberculosis).....	12	...	...	...	3	9	...	2	10	...
Other Tubercular Diseases.....	3	3	...	...	...	...	...	1	2	...
Cancer (Malignant Disease).....	14	...	...	...	...	11	...	6	8	...
Bronchitis	14	4	2	...	...	4	4	6	8	...
Pneumonia	13	1	4	...	1	5	2	8	5	...
Pleurisy	1	...	1	...	...	...	...	...	1	...
Other Diseases of Respiratory Organs...	2	...	1	...	...	...	1	1	1	...
Alcoholism—Cirrhosis of Liver	1	...	...	...	...	1	...	...	1	...
Premature Birth.....	9	9	...	...	...	...	...	5	4	...
Heart Diseases.....	33	2	...	...	1	15	15	12	21	...
Accidents.....	11	1	...	...	...	8	2	7	4	...
Suicides	4	...	...	...	...	3	1	...	4	...
Rheumatic Fever	2	...	...	...	2	...	...	1	1	...
Old Age	22	...	...	...	...	...	22	12	10	...
All Other Causes	64	16	2	9	...	16	21	24	40	...
All causes	222	42	16	11	8	73	72	96	126	4

TABLE V.—Infantile Mortality during the Year 1907.

CANNOCK RURAL DISTRICT.

Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH.	Under 1 Week.	1—2 Weeks.	2—3 Weeks.	3—4 Weeks.	Total under 1 Month.	1—2 Months.	2—3 Months.	3—4 Months.	4—5 Months.	5—6 Months.	6—7 Months.	7—8 Months.	8—9 Months.	9—10 Months.	10—11 Months.	11—12 Months.	Total Deaths under 1 Year.
All causes—certified 39, uncertified 2	13	1	...	5	19	6	4	2	...	...	1	1	3	3	2	...	41
1. Common Infectious Diseases :																	
Measles .....	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	3
2. Diarrhoeal Diseases :																	
Diarrhoea, all forms.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Enteritis .....	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Gastritis .....	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
3. Wasting Diseases :																	
Premature Birth.....	8	...	...	1	9	...	...	...	...	...	...	...	...	...	...	...	9
Congenital Defects	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Want of Breast Milk, Starvation	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
Atrophy, Debility, Marasmus...	...	1	...	2	3	1	...	1	...	...	...	...	...	...	...	...	5
4. Tuberculous Diseases :																	
Tuberculous Meningitis .....	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1
Tuberculous Peritonitis .....	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Other Tuberculous Diseases ...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	2
5. Other Causes :																	
Meningitis (not Tuberculosis)	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2
Convulsions .....	...	...	...	...	...	...	1	...	...	...	...	...	...	2	...	...	3
Bronchitis.....	...	...	...	1	1	2	...	...	...	...	...	...	1	...	...	...	4
Pneumonia .....	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
Other Causes .....	...	...	...	...	2	1	...	...	...	...	...	...	2	...	...	...	5
	13	1	...	5	19	6	4	2	...	...	1	1	3	3	2	...	41

Population, estimated to middle of 1907, 19,550.

Births in the Year—Legitimate, 487; Illegitimate, 19.

Deaths in the Year—Legitimate Infants, 37; Illegitimate Infants, 4. Deaths from all causes at all ages, 211; and 11 in other districts.

Report of Inspector of Nuisances.

T. F. PICKERING, Assoc. Royal San. Inst.

(Certificated Sanitary and Meat Inspector).

FOR THE YEAR ENDING 1907.

OXLEY PLACE,

BUSHBURY LANE,

MARCH 2nd, 1908.

*To the Chairman and Members of the Cannock
Rural District Council.*

GENTLEMEN,

I have again the honour of submitting to you my Annual Report of the work carried out by me as Inspector of Nuisances, etc., to your Council during the year 1907.

Inspections:

During the year I have made 2,217 inspections, re-inspections, and calls, and upon reference to the summary at the end of this report the result of my work can readily be seen; 725 nuisances have been discovered whilst making the above inspections, which has rendered it necessary for me to issue 175 preliminary notices and 5 duly authorised statutory notices; 451 letters have been written, with reference to nuisances, and replies to correspondents. 104 houses have been inspected, and 72 of these have been found to be in a dilapidated, foul, and damp condition, whilst 11 were overcrowded.

Water Supply:

Twenty houses have been found to be without a proper supply of drinking water, and after notifying the various owners, I have succeeded in getting these houses supplied. Eleven samples of drinking water have been taken for analysis, and 6 of the samples have been condemned by the analyst as being unfit for drinking purposes. One of these samples was taken from a well which was the water supply to a bakehouse; 1 was from a public well situated in Lapley, which gave the water supply to several houses; 1 was taken after a case of diphtheria, and 3 from new premises which had been erected upon old sites, where the old wells had been retained.

Water Certificates:

Twelve applications have been received for water certificates under the Public Health Water Act, 1878, for 26 newly erected houses. I inspected the water supply at each of these houses, and recommended that 9 certificates be issued and an analysis made of the

drinking water of the other 3 before certificates were granted. This was done, and the water was condemned by the analyst as being unfit for drinking purposes. The certificates were therefore withheld until a proper supply of water was obtained. One summons has been taken out against the owner of a house situated at Calf Heath, for allowing the house to be occupied without having first obtained the water certificate. The Magistrates decided for the owner to pay the cost of the case—6s.

Slaughter Houses :

One hundred and five visits have been made to the slaughter houses in the district, which have all been found to be kept in a clean and satisfactory condition. During my visits I have occasionally found various pieces of meat and organs diseased, which have been destroyed by the owners upon my calling their attention to same. Ten applications for renewals of slaughter house licenses, 1 application for new slaughter house license, and 1 application for a transfer of license to other premises have been received, and these have all been granted by the Council.

Dairies, Cowsheds, and Milkshops :

One hundred and fifty-eight cowsheds, dairies, and milkshops have been inspected, and 20 infringements under the Dairies, Cowsheds, and Milkshops Order found. The infringements have been (1) walls of cowsheds in a dirty condition, (2) premises without means of drainage, (3) premises defectively drained, (4) drains choked, (5) paving in cowsheds defective, (6) untrapped openings in dairies, (7) premises without light or ventilation. All these infringements have been remedied after writing to the various owners. Six persons have been registered under the Dairies, Cowsheds, and Milkshops Order, 1886, as cowkeepers, dairymen, and purveyors of milk.

Workshops and Bakehouses :

One hundred and forty-two inspections of factories, workshops, and bakehouses have been made, and 42 infringements found, viz., walls of bakehouses in a dirty condition, owners having failed to affix Abstract and notify Factory Inspector, and insufficient and improper closet accommodation. These infringements have all been remedied after writing to the various owners, and I have succeeded in getting in one factory 40 defective pan closets abolished and 40 water closets substituted, together with an entire new scheme of drainage.

Infectious Diseases :

I have investigated 54 cases of scarlet fever and 10 of diphtheria reported to me by the Medical Officer of Health, and have removed (upon the instructions of the Medical Officer) 50 patients to the Isolation Hospital. One hundred and thirty school notes have been issued in connection with above cases. One person has been summoned

under the Infectious Diseases Act, for allowing a child to be exposed upon the highway whilst suffering from scarlet fever. The case was heard at Penkridge, when defendant was fined forty shillings, and two pounds, three shillings, and tenpence costs.

Disinfection :

Sixty houses have been disinfected after cases of infectious disease, and 65 lots of infected clothes and bedding have been disinfected or destroyed.

Scavenging :

Sixty-three complaints have been received of ashpits not having been attended to—18 of those were in Cheslyn Hay and 45 in Bushbury. I visited each of the premises complained of, and instructed the scavenging contractors to carry out the necessary work. The scavenging generally is carried out to my entire satisfaction, and the contractors have always been willing to carry out my instructions without delay or difficulty.

Bushbury Drainage :

Since the new sewer has been finished in the parish of Bushbury, I have succeeded in getting 69 premises properly redrained, 72 privy middens abolished, offensive sinks removed, and many other minor matters dealt with. The majority of the occupiers welcome the abolition of the filthy midden to the water carriage system, and the conversion of the open wet ashpit to a properly covered one. The system of drainage enforced is a properly glazed stoneware socketed pipe with cement joints, a disconnecting chamber with a fresh air inlet and air tight cover, an inspection chamber at diversion of drain with an air tight cover, and a four inch ventilating shaft. This is the most modern method of drainage, and is meeting with the general approval of the owners. When the whole of the properties are redrained, it will be advisable for the Council to reconsider the present system of scavenging, the work of which will be greatly reduced, and will be able to be carried out with greater facility and without any nuisance or inconvenience to the occupiers.

Petroleum Act :

Twenty-nine inspections have been made under the Petroleum Acts, and the premises found to have been kept in a satisfactory condition. 14 applications for the renewal of licenses have been received, 4 for the storage of colzalene, 5 for the storage of petrol, 4 for the storage of carbide of calcium, and 1 for the storage of petroleum. One application has been received for a license to store petrol. These premises have all been inspected and found satisfactory, and the Council decided to renew the licenses.

Canal Boats Acts :

Fifty-one Canal Boats have been inspected, and 18 infringements found. The details are at the end of this report.

In conclusion, I again respectfully desire to express my thanks to the Chairman and Members of the Council, the Medical Officer of Health, the Clerk, and the Surveyor for the courteous treatment and assistance given me during the past year.—I am, Your Obedient Servant,

T. F. PICKERING.

Complaints received and dealt with.

Sanitary Defects and other Nuisances	...	...	43
Requests to have Privies and Ashpits Emptied (Bushbury)			45
"	"	"	"
"	"	"	"
"	"	"	"
		(Cheslyn Hay)	18—63

Summary of Sanitary Work done during the Year 1907.

Number of Houses Inspected	...	...	104
Number of Bakehouses Inspected	...	...	48
Workshops and Factories Inspected	...	...	94
Slaughter Houses Inspected...	...	...	105
Cowsheds, Dairies, and Milkshops Inspected		...	158
Canal Boats Inspected	...	...	51
Meat and Food Inspected	...	...	97
Piggeries, Fowls, and other Animals Inspected		...	300
Stables and Stable Yards Inspected	...	...	157
Ashpits Reported for Cleansing	...	...	80
Samples of Water taken for Analysis	...	...	11
Cases of Certified Infectious Disease Investigated	...	...	64
Cases removed to Isolation Hospital	...	...	63
Houses Disinfected after Infectious Disease		...	64
Schools Disinfected after Infectious Disease		...	1
Inspections under Petroleum Acts	...	...	44
Re-inspections, Calls, etc.	...	...	776
			—2217

Nature of Nuisances discovered.

The house or part of the house in a dirty condition	...	20
The house or part of the house in a damp condition	...	5
The house or part of the house in a dilapidated condition	...	7
The house or part of the house being overcrowded	...	13
Insufficient or improper closet accommodation	...	3
Closets being improperly situated	...	17
Privy midden or cesspit being a nuisance	...	42
Waste water closets choked	...	5
Sinks being foul, improperly constructed and drained...	...	20
The drain inlets being untrapped	...	66
The drains being foul	...	19
The drains being stopped or choked	...	6
The drains being defective	...	103
Premises without proper means of drainage	...	11

Rain water pipes or gathering being defective	...	16
Roof of houses being defective...	...	8
The floors of yards and closets being in an insanitary condition for want of proper paving	...	25
Floors of yards or closets being foul	...	22
The outbuildings being dilapidated	...	12
The ashpits being foul or defective	...	72
Premises being without proper ash accommodation	...	47
Animal or animals kept so as to be a nuisance	...	8
Accumulation of offensive matter	...	16
Urinals being improperly constructed, drained or offensive	...	4
Premises without water supply	...	3
Premises with insufficient supply of water...	...	17
Rain water cisterns being foul...	...	5
Dangerous buildings	...	2
Defective waste water closets	...	2
Water closets without supply of water for flushing	...	3
Privy middens connected to drain	...	7
Bath outlet untrapped	...	1
Miscellaneous	...	108
		—725

Improvements made in compliance with Notices served.

Drains	{	Re-constructed	...	...	70
		Improved or repaired...	...	...	20
		Traps fixed	...	...	130
Sinks provided or properly drained			...	...	27
Privy middens abolished			...	...	72
Privies repaired and re-constructed			...	...	9
Waste water closets provided	...		...	...	46
Pan closets provided	...		...	...	7
Water closets provided	...		...	...	55
Ashpits provided and repaired...	...		...	...	72
Ashpits emptied	...		...	...	84
Yards and channels repaired and re-laid	...		...	...	87
Water	{	Wells closed	...	...	1
		Wells cleansed	...	...	8
		Water provided	...	...	11
Overcrowding abated	...		...	...	11
Houses	{	Cleansed or linewashed	...	...	15
		Generally repaired	...	...	27
		Lighted or ventilated	...	...	1
		Sponting provided	...	...	6
Animals removed	...		...	...	8
Offensive matter removed	...		...	...	17
Outdoor premises linewashed and repaired	...		...	...	22
Other amendments or nuisances abated	...		...	...	15
Total improvements					856
Total premises improved					424

DAIRIES, COWSHEDS, & MILKSHOPS ORDERS, 1886.

The following is a summary of the work carried out under this Order:—

Cowsheds, Dairies, and Milkshops Inspected	...	158
Registration of Cowkeepers, Dairymen, and Purveyors of Milk	... ..	6

Nature of Nuisances discovered

Walls of Cowsheds in a dirty condition	...	4
Premises without means of drainage	...	4
Premises defectively drained	...	1
Drains choked	...	2
Paving in Cowsheds defective	...	1
Untrapped Openings in Dairies	...	2
Premises without light or ventilation	...	6—20

Improvements made in compliance with Notices served.

Walls of Cowsheds cleansed and limewashed	...	4
Premises properly drained	...	7
Drains improved or repaired	...	2
Floors and channels repaired and re-laid	...	1
Light and ventilation provided	...	6—20

Cannock Rural District Council.

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CANAL BOATS ACTS, 1877—1884.

—o—

REPORT FOR YEAR ENDING 1907.

Fifty-one Canal Boats have been inspected during 1907, and the following infringements found:

Certificates of Registration not produced...	4
Boats overcrowded ...	1
Cabins in a filthy condition ...	4
Numbers and Name not upon Boat ...	3
Registration number wrong ...	1
Water Vessel of insufficient capacity ...	1
Cabins defective ...	2
Cabins requiring to be repainted ...	2—18

Legal proceedings have been taken against two owners of Canal Boats under Sections 1 and 2 Canal Boats Acts, 1877, and Sections 4 General Orders, 1877, for allowing a boat to be used as a dwelling without having been registered, and for a boat being used as a dwelling whilst the cabin was in a filthy condition. A fine of 5/-, and 9/- costs, was inflicted upon the first case; and a fine of 10/-, and 9/6 costs, upon the second. The other infringements have been dealt with by issuing notices and following same up with letters. Nine Complaint Forms have been issued, supplemented by nine letters.

The occupants of the Canal Boats generally have been very courteous in their manner during my inspections, and the cabins I have found to be kept in a clean and satisfactory condition.

Oxley Place,
Bushbury Lane,
Bushbury.

T. F. PICKERING,
Canal Boat Inspector.

*Summary of Sanitary Work done in the Nuisance Inspector's Department during the Year 1907,
in the Rural District of Cannock.*

	Number of		Abatement Notice		Nuisances abated after Notice by	
	Inspections and Observations made	Defects found	Informal by Inspector	Formal by Authority	Inspector	Authority
Dwelling Houses, { Foul Oonditions Structural Defects	104	25 53	175 Notices have been issued which contained several nuisances.	5 Statutory Notices have been issued.	25	...
Schools { Overcrowding	15	11			50	...
Dairies and Milkshops, Cowsheds	158	20			11	...
Bakehouses ...	45	2			20	...
Slaughter Houses ...	118	6			2	...
Canal Boats ...	51	18			3	...
Ashpits and Privies ...	160	63			16	3
Deposits of Refuse and Manure	12	3			63	...
Water Closets ...	70	10			3	...
House Drainage { Defective Traps No Disconnection Other Faults	257	186			10	...
Water Supply ...	92	23	175	5	170	...
Pigsties—Animals improperly kept	209	15			23	...
Other Nuisances ...	153	421			15	...
TOTALS	1444	856			421	...
Precautions against Infectious Disease—					832	3
Lots of Infected Bedding Disinfected or Destroyed	...	65	Samples of Water taken for Analysis ...		...	...
Houses Disinfected after Infectious Disease...	...	60	Samples of Water Condemned as Unfit for Use ...		...	11
Schools Disinfected after Infectious Disease	...	1			...	...
Prosecutions for Exposure of Infected Persons or things	1	1			...	5
Convictions for Exposure of Infected Persons or things	1	1			...	...

Inspector of Nuisances,

(Signed) T. F. PICKERING,

March 6th, 1908.

